

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 January 2006 (12.01.2006)

PCT

(10) International Publication Number
WO 2006/003521 A1

(51) International Patent Classification⁷: **A61K 31/737**,
A61P 31/18, 31/12

(21) International Application Number:
PCT/IB2005/002346

(22) International Filing Date: 7 February 2005 (07.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/542,743 6 February 2004 (06.02.2004) US

(71) Applicant (for all designated States except US):
MONASH UNIVERSITY [AU/AU]; Wellington Road,
Clayton, VIC 3800 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **COMPER, Wayne**,
D.; 387 Old Warrandyte Road, North Ringwood, VIC 3134
(AU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: HIGH DOSE, SHORT INTERVAL USE OF SULFATED POLYSACCHARIDES FOR THE TREATMENT OF INFECTIONS

(57) Abstract: Methods and compositions for treating or preventing acute or chronic viral infection over a short time interval in mammals with sulfated polysaccharides wherein the polysaccharides have a percent of sulfur with respect to the sugar residue effective to enable maximal interaction of constituent sulfate groups with the microbe which causes the infection and wherein the sulfated polysaccharide is not substantially endocytosed or degraded by cell receptor binding in the mammal and thereby retains antiviral activity *in vivo*.



WO 2006/003521 A1